

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015**(U.G.—CCSS)****Core Course—Computer Science****CS 5B 11—PRINCIPLES OF SOFTWARE ENGINEERING****(2012 Admission onwards)****Time : Three Hours****Maximum : 30 Weightage****I. Answer all questions :**

- 1 When two modules refer to the same global data area they are related as _____.
- 2 Legacy systems are _____ type of systems.
- 3 Most important feature of spiral model is _____.
- 4 ERD stands for _____.
- 5 The maintenance initiated by defects in software is called _____.
- 6 The process of transforming a model into a source code is called _____.
- 7 _____ is a measure of degree of interdependence between modules.
- 8 Changes made to the system to reduce the future system failure chances are called _____.
- 9 The main purpose of integration testing is to find _____.
- 10 Which phase is not available in software life cycle ?
 - (a) Coding.
 - (b) Testing.
 - (c) Maintenance.
 - (d) Abstraction.
- 11 Coupling and cohesion can be represented using a _____.
- 12 Aggregation represents _____.

(12 × ¼ = 3 weightage)**II. Answer all questions :**

- 13 List the major outputs in a waterfall model.
- 14 What is cyclomatic complexity ?
- 15 List the major risks in a software project.
- 16 Explain polymorphism.
- 17 What is SRS ?

Turn over

- 18 What do you mean by a decision table ?
- 19 What is quality assurance ?
- 20 What is the importance of software configuration management ?
- 21 What is risk analysis ?

(9 × 1 = 9 weightage)

III. Answer any *five* questions :

- 22 Explain different types of cohesion.
- 23 Discuss cause effect graphing technique with an example.
- 24 Distinguish between verification and validation.
- 25 Discuss about Unified Modeling Language.
- 26 Differentiate between functional and non-functional requirements.
- 27 Define software testing. Explain various levels of testing.
- 28 Write short notes on structure chart.

(5 × 2 = 10 weightage)

IV. Answer any *two* questions :

- 29 Explain white box testing in detail.
- 30 What are the different software development life cycle models ? Explain any two.
- 31 Explain about object oriented concepts and design principles.

(2 × 4 = 8 weightage)